

Definition of GERD

 GERD is the condition in which the reflux of gastric contents into the esophagus results in symptoms and/or complications. GERD is objectively defined by the presence of characteristic mucosal injury seen at endoscopy and/or abnormal esophageal acid exposure demonstrated on a reflux monitoring study.

Katz P, etal 2021,AJG in press

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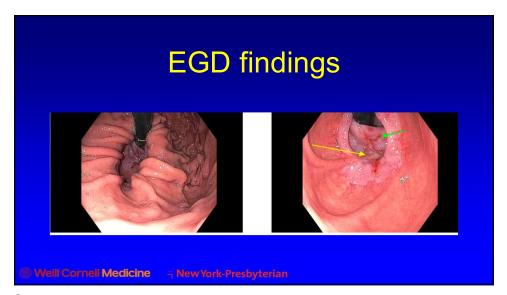
Goals of Therapy

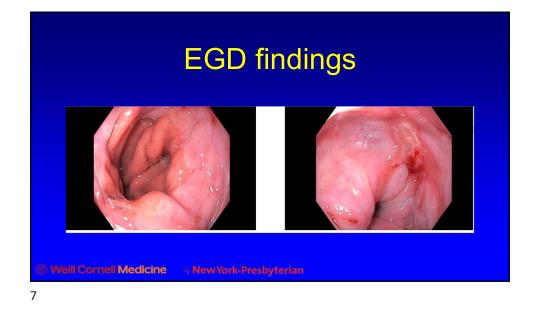
- Relieve symptoms (improve quality of life)
- Prevent complications

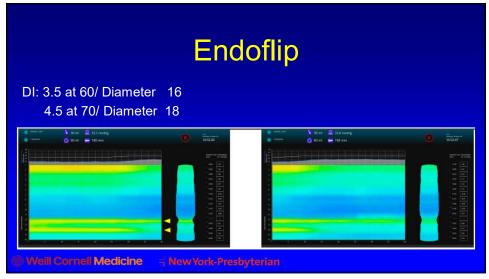
Patient Profile

- 64 yr old presents with progressive dysphagia/solid and liquids
- Long standing "GERD", managed without objective diagnosis with PPI AM and H2 HS with moderate relief with this regimen
- Symptoms predominantly regurgitation, heartburn progressing to dysphagia becoming dominant.
- No weight loss
- No major medical problem
- Scheduled for EGD with endoflip/Bravo off PPI for 2 weeks

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GERD phenotypes

GERD syndrome	Distinguishing features
Non-erosive reflux disease (NERD)	 Heterogeneous population ➤ When defined by pH-metry, very similar to low grade esophagitis, but when defined by symptoms, overlaps with GERD hypersensitivity and functional heartburn
Reflux hypersensitivity	
Functional heartburn	
Low grade erosive esophagitis (Los Angeles grade A or B)	 Poor EG barrier function with excess acid reflux and typical reflux symptoms (heartburn and regurgitation) LA A esophagitis found in about % of asymptomatic controls making it a non-specific finding
High grade erosive esophagitis. (LA grade C or D)	 Prolonged esophageal acid clearance with grossly abnormal EGJ function and prominent recumbent (nocturnal) reflux Usually associated with histus hernia and impaired esophageal motility
Barrett's esophagus	Greatest risk for esophageal adenocarcinoma Endoscopic spectrum from intestinal metaplasia at the EG to short segment Barrett's to long segment Barrett's (> Gm) Eliological spectrum from non-dysplastic metaplasia to low grade dysplasia biological spectrum for both acid and bile reflux

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One Approach

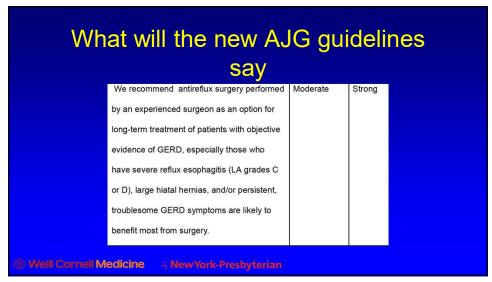
- Only consider "intervention" when medicine is not successful
- Consider intervention when there are side effects of medicine (or allergy)
- Intervene for fear of medical complications
- Intervene in selected anatomic situations for fear of complication
- Intervene in selected phenotypes (symptoms) because surgery is superior to medicine
- Intervene to prevent cancer

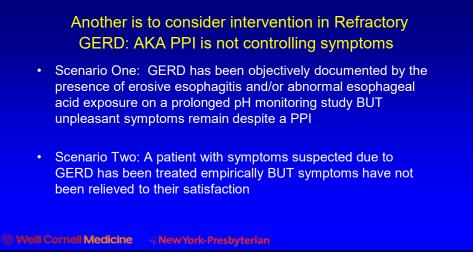
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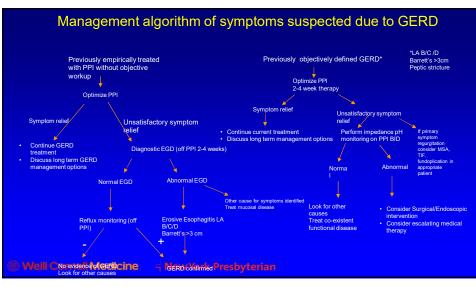
Another approach is to discuss surgery with all patients who require chronic maintanence therapy with PPI

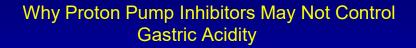
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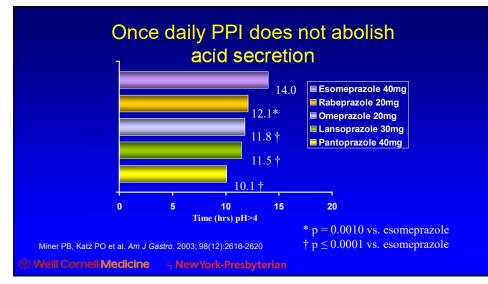


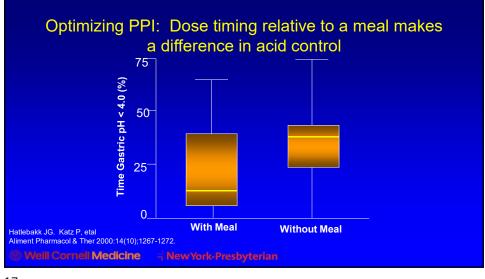




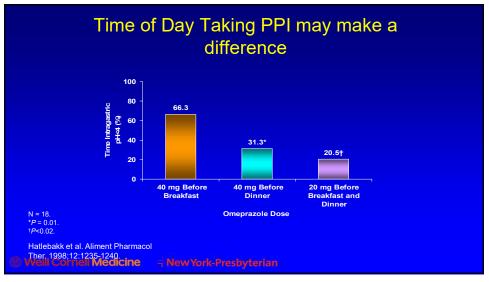
- · Dose timing related to food not optimal
- Dose insufficient
- Genetic variability in PPI metabolism
 Less likely
- Hpylori negative (May need higher dose)
- Hypersecretion (rare)

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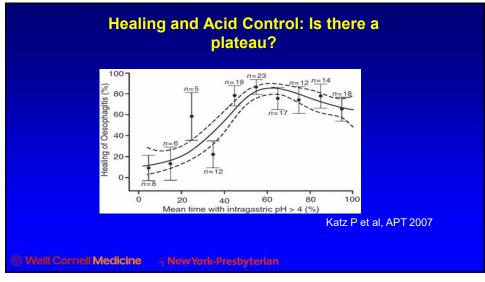


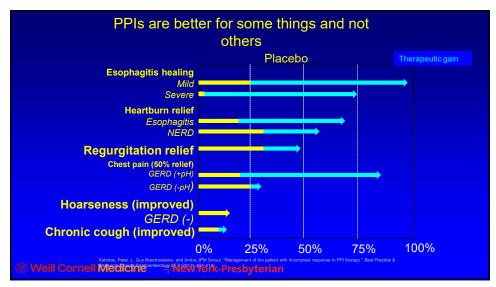


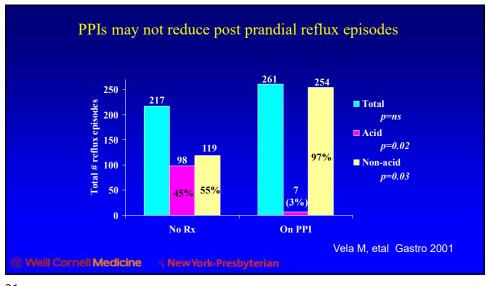




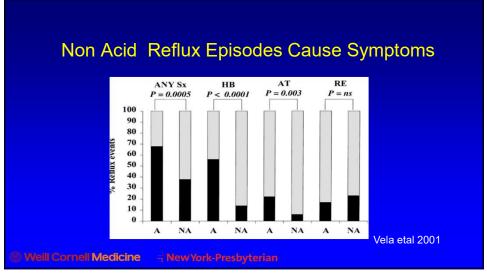


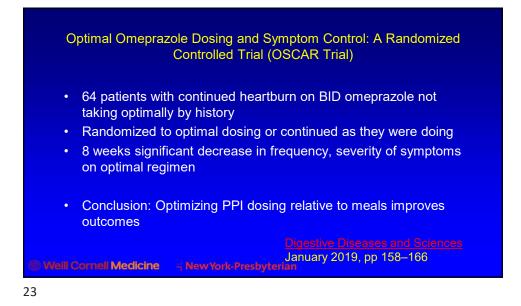


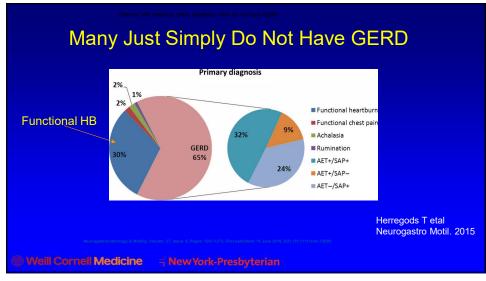












Consider Intervention in Any Patient with Proven GERD Who:

- Does not want to take medication
- Who is not relieved with medication
- Has side effects from medication
- Who has complicated disease and requires better reflux control than medication can offer

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